

ABSTRACT OF THE DISCLOSURE

In a hybrid compressor, a compression mechanism includes a rotary shaft, which has a first end and a second end. The first end of the rotary shaft is coupled to a rotating body, which receives power from an external drive source. The second end of the rotary shaft is coupled to an electric motor, which drives the rotary shaft. The rotary shaft is coupled to a rotor of the electric motor via a one-way clutch, which prevents power from being transmitted from the rotary shaft to the rotor. The rotor is supported by a motor shaft, which is separate from the rotary shaft. The second end of the rotary shaft is coupled to an end of the motor shaft using the one-way clutch as a coupling.